The Prefabricated Website

Who needs a server anyway?

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bit.ly/Prefabricated



Quick summary

The projects: *Endings* and *The Map of Early Modern London* (*MoEML*)

What is a static site, and why would you build one?

The site build process

Advantages

Disadvantages



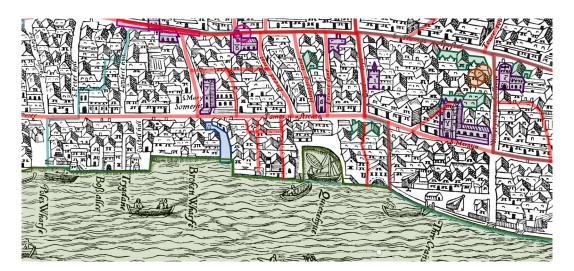


The Map of Early Modern London

Currently version 6.3 / 6.4, versions dating back to 1999

2,000+ documents, 1,600+ locations, 6,500+ people, 1800+ bibliography items

Gazetteer / encyclopedia / digital edition publication platform





Project Endings

Endings is a four-year project funded by the Social Sciences and Humanities Research Council (<u>SSHRC</u>) that is creating tools, principles, policies and recommendations for digital scholarship practitioners to create accessible, stable, long-lasting resources in the humanities.

Thank you SSHRC!



Social Sciences and Humanities Research Council of Canada

Conseil de recherches en sciences humaines du Canada



Endings principles

- Data
- Products
- Processing
- Documentation
- Release Management



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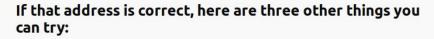
Static sites: what and why?



www.tei-c.org, early 2019...

Hmm. We're having trouble finding that site.

We can't connect to the server at www.tei-c.org.



- Try again later.
- Check your network connection.
- If you are connected but behind a firewall, check that Firefox has permission to access the Web.





Try Again

Dependencies

The TEI site depends on WordPress.

WordPress depends on PHP and MySQL (single point of failure).

Getting a new server running requires

- Installing PHP and MySQL
- Restoring the DB from backup
- Configuring WordPress
- ...



No such problem with the Guidelines

The online version of the TEI Guidelines consists only of HTML, CSS and

JavaScript.

It's always in multiple places.

You can put a copy of it on any server.

You can use it from a local drive.

You can put as many copies as you like wherever you want.

That's a static site.





Static sites:

Have no dependencies (other than a web server)



Are pure HTML, CSS and JavaScript V

Can be replicated endlessly V

Need little or no curation

Therefore have more chance of survival



We're not the only people who think so...

<u>Jamstack.org</u> is an initiative to champion "modern web development architecture based on client-side JavaScript, reusable APIs, and prebuilt Markup," in the interests of "better performance," "cheaper, easier scaling," "higher security," and a "better developer experience."





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- Validate (Schematron)



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- Validate (Schematron)
- Diagnose
 - Coherence: all links point to things.
 - Consistency: all documents conform to encoding and editorial guidelines.
 - Completeness: everything mentioned actually exists.
 (See Holmes and Takeda 2019, http://dx.doi.org/10.1093/llc/fqz011)



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If anything is wrong, then stop. A Website with errors is not worth building.



In the bad old days before Endings...

...project members would happily upload anything they thought was finished into the live web application.

They linked to things that didn't yet exist or might never exist.

They added images and documents that were never linked to.

The site was always slightly broken in numerous ways.



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We'll have no more of that.

Make more XML!



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(See Holmes 2017, http://dx.doi.org/10.1093/llc/fqw048)





Map Encyclopedia Library Stow About

Home > Encyclopedia > Placeography > Streets

Credits



See XML

Original XML

Standard XML

Standalone XML

TEI Lite XML

TEI Simple XML (experimental)

What are these XML versions?

ABCHURCH LANE

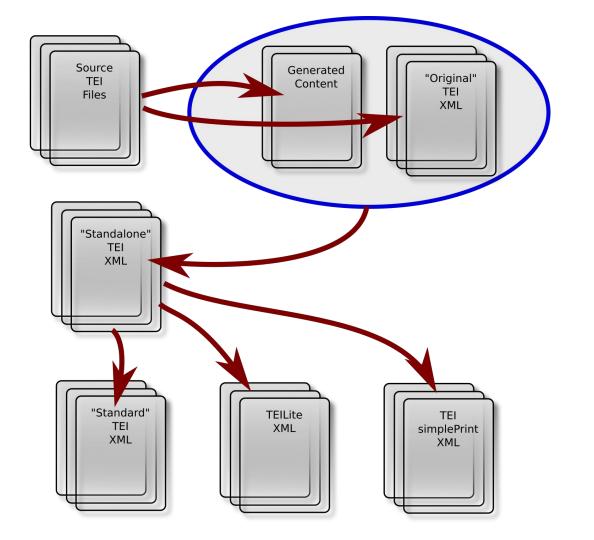
- Agas Map
- Google Map
- List documents mentioning Abchurch Lane
- List variant names and spellings

Abchurch Lane runs north-south from Lor 'Abchurche lane." It lies mainly in Cand Langbourne Ward and Candlewick Street Wa

While the lane clearly takes its name from t refers to **Abchurch Lane** only twice, both Langbourne Ward is terse, but the Candlew









- Build the HTML, CSS and JavaScript.
- Validate all the HTML.
- Validate all the CSS.

If anything is wrong, then stop. A Website with errors is not worth building.





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- Every page stands alone and complete in terms of content.
- All pages live together in the same folder.



"But but but"

But massive duplication of content across the site!

But thousands of files no-one may ever see!

But 10,591 files all in the same folder!

We don't care.

We don't care.

We don't care.



You can build hugely complex resources that could not be built on the fly.

For example:

- the Gazetteer (9000 entries)
- the <u>A-Z Index</u> (a single page with 10,500 entity ids)

(Because Control + F.)



You can do really complicated, multi-pass processing of gnarly markup.

For example: @style, <rendition>/@selector

- Collect all identical @style on elements into a <rendition>
- Convert all <rendition>/@selectors into XPath, then to @rendition
- Then generate HTML/CSS



Archiving the site is easy:

```
cp -r site somewhere_else/
```

Replicating the site is easy:

```
cp -r site somewhere_else/
```



Everything is there.

Internal links never break.

Everything works.

Everything is valid.

Everyone is happy.





Disadvantages

Deferred gratification.

- Builds take a long time.
- Builds often fail.
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- Patience is a virtue: let your build take a long time; let your releases be well-separated.

Thanks for listening!

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https://projectendings.github.io/

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